

Figure 1

MFFLRSWASSTTGSRYGSAFCGSPTLAWCVCVPVCYGESRILRVKVVSG  
 IDIakkdiFGASDPYVKLSLYVADENRELALVQTKTIKKTLNPKWNEEF  
 ^^^^^^  
 YFFVNPSNHRLLFEVFDENRLTRDDFLGQVDVPLSHLPTEDPTMERPYT  
 ^^^^^^  
 FKDFLLRPRSHKSrvKGFLRLKMAYMPKNGGQDEENSQRDDMEHGWEV  
 VDSNDSASQHQEELPPPPLPPGEEKVDNLGRYYVNHNNRTTQWHRPS  
 \*\*\*\*\*  
 LMDVSSESNDNNIRQINQEAAHRRFRSRRHISEDLEPEPSEGKDVEPWE  
 \*  
 TISEEVNIAGDSLGVVLPPPPASPGSRTSPQELSEELSRRLQITPDNSG  
 EQFSSLIQREPSSRLRSCSVTDAVAEQGHLPPPSVAYVHTTPGLPSGWE  
 \*\*\*\*\*  
 ERKDAKGRYYVNHNNRTTWTRPIMQLAEDGASGSATNSNNHLIEPQI  
 \*\*\*\*\*  
 RRPRSLSSPTVTLXAPLEGAKDSPVRRAVKDTLSNPQSPQSPYNSPKP  
 QHKVTQSFLPPGWEMRIAPNGRPFFIDHNTKTTWEDPRLKFVHMRSK  
 TSLNPNDLGPLPPGWEERIHLDGRTFYIDHNSKITQWEDPRLQNPATG  
 \*\*\*\*\*  
 PAVPYSREFKQKYDYFRKKLKKPADIPNRFEMKLHRNNIFEESYRRIMS  
 VKRPDVLKARLWIEFESEKGLDYGGVAREWFFLLSKEMFNPyYGLFEYS  
 ATDNYTLQINPNGLCNEDHLSYFTFIGRVAGLAVFHGKLLDGFFIRPF  
 YKMMMLGKQITLNDMESVDSEYYNSLKWILENDPTELDLMFCIDEENFGQ  
 TYQVDLKPNGSEIMVTNENKREYIDLVIQWRFVNRVQKQMNAFLEGFTE  
 LLPIDLIKIFDENELELLMCGLGDVDVNDWRQHSIYKNGYCPNHPVIOW  
FWKAVILLMDAEKRIRLLQFVTGTSRVPNGFAELYGSNGPOLFTIEOWG  
SPEKLPRAHCFNRLDLPPYETFEDLREKLLMAVENAQGEGVD.

Figure 2a

1 S R F S S S S T V A C P G R G R A R P V C W K R S E M A - - T C A V E V F G L P46934  
 1 - M F R L R S W A S S T T G S R Y G S A F C - G S P T L A W C V C V P V C Y G - ZGGBP-1  
  
 19 L E D E E N S R I V R V R V I A G I G L A K K D I L G A S D P Y V R V T L Y D P P46934  
 38 - - - E S R I L R V K V V S C I D L A K K D I F G A S D P Y V V K L S L Y V A ZGGBP-1  
  
 79 M N G V - L T S V Q T K T I K K S L N P K W N E E I L F R V H P Q H R L L F E P46934  
 73 D E N R E L A L V Q T K T I K K T L N P K W N E E F Y F R V N P S N H R L L F E ZGGBP-1  
  
 118 V P D E N R L T R D D F L G Q V D V P L Y P L P T E N P R L E R P Y T F K D F V P46934  
 113 V P D E N R L T R D D F L G Q V D V P L S H L P T E D P T M E R P Y T F K D F V ZGGBP-1  
  
 158 L H P R S H K S R V K G Y L R L K M T Y L P K T S G S E D D N A E Q A E E L E P P46934  
 153 L R P R S H K S R V K G F L R L K M A Y M P K N G G Q D E E N S D Q R D D M E H ZGGBP-1  
  
 198 G H V V L D Q P D A A C H L Q Q Q E P S P L P P G W E E R Q D I L G R T Y Y V P46934  
 193 G W E V V D S N D S A S Q H Q E E L P P P P L P P G W E E K V D N L G R T Y Y V ZGGBP-1  
  
 238 N H E S R R T Q W K R P T P Q D N L T D A E N G N I Q L Q - - A Q R A F T T R P46934  
 233 N H N N R T T Q W H R P S L M D V S S E S D N N I R Q I N Q E A A H R R P R S R ZGGBP-1  
  
 275 R Q I S E - - E T . E S V D N Q E S S E N W E I I R E D E A T M Y S S Q A F P S P P46934  
 273 R H I S E D L E P E P S E G G D V P E P W E T I S E E V N I A G D S L G V V L P ZGGBP-1  
  
 313 P P S S N L D V - - P T H L A E E L N A R L T I F G N S A V S Q P A S S S N H P46934  
 313 P P P A S P G S R T S P Q E L S E E L S R R L Q I T P D S N G E Q F S S L I Q R ZGGBP-1  
  
 350 S S R - - R G S S L Q A Y T F E E Q P T L P - - V L L P T S S G L P P G W E P46934  
 353 E P S S R L R S C S V T D A V A E Q G H L P P P S V A Y V H T T P G L P S G W E ZGGBP-1  
  
 383 E K Q D E R G R S Y Y V D H N S R T T T W T K P T V Q - - - - A T V E P46934  
  
 393 E R K D A K G R T Y Y V N H N N R T T T W T R P I M Q L A E D G A S G S A T N S ZGGBP-1  
  
 414 T S Q L T S S Q S S - - - - A G P Q S Q A S T S D - - - - P46934  
 433 N N H L J E P Q I R P R S L S S S P T V T L X A P L E G A K D S P V R R A V K D ZGGBP-1

Figure 2b

435 - S C Q Q V T Q P S - - - E I E Q G F L P K G W E V R H A P N G R P465-4  
 473 T L S N P Q S P Q P S P Y N S P K P Q H X V T Q S F L P P G W E M R I A P N G R ZGCBP-1  
  
 464 P F F I D H N T K T T W E D P R L K I P A H L R G K T S L D T S N D L G P L P P46934  
 513 P F F I D H N T K T T W E D P R L K P V H M R S K T S L N - P N D L G P L P ZGCBP-1  
  
 504 P G W E E R T H T D G R I F Y I N H N I K R T Q W E D P R L E N V A I T G P A V P46934  
 552 P G W E E R I H L D G R T F Y I D H N S K I T Q W E D P R L Q N P A I T G P A V ZGCBP-1  
  
 544 P Y S R D Y K R K Y E F F R K L K K Q N D I P N K F E M K L R R A T V L E D S P46934  
 592 P Y S R E F K Q Y D Y F P K Y L K K P A D I P N R P E M K L H R N N I F E E S ZGCBP-1  
  
 584 Y R R I M G V K R A D F L K A R L W I E F D G E K G L D Y G G V A R E W F F L I P46934  
 632 Y R R I M S V K R P D V L K A R L W I E P E S E K G L D Y G G V A R E W P F L L ZGCBP-1  
  
 624 S K E M F N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y F K P46934  
 672 S K E M P N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y P T ZGCBP-1  
  
 664 P I G R V A G M A V Y H G K L L D G F F I R P F Y K H M L H K P I T L H D M E S P46934  
 712 P I G R V A G G L A V F H G Y L L D G F F P I R P P Y K H M L G K Q I T L N D M E S ZGCBP-1  
  
 704 V D S E Y Y N S L R W I L E N D P T E L D L R P I D E E L P G Q T H Q H E L K P46934  
 752 V D S E Y Y N S L K W I L E N D P T E L D L M F C I D E E N P G Q T Y Q V D L K ZGCBP-1  
  
 744 N G G S E I V V T N K N K K E Y I Y L V I Q W R P V N R I Q K Q M A A F K E G P P46934  
 792 P N G S E I M V T N E N K R E Y I D L V I Q W R P V N R V Q K Q M N A P F L E G P ZGCBP-1  
  
 784 P E L I P Q D I K I P D E N E L E L L M C G L G D V D N D W R E H T K Y K N P46934  
 832 T E L P I D L I K I F D E N E L E L L M C G L G D V D N D W R Q H S I Y K N ZGCBP-1  
  
 824 G Y S A N H Q V I Q W F W K A V L M M D S E K R I R L L Q F V T G T S R V P M N P46934  
 872 G Y C P N H P V I Q W P W K A V L L M D A E K R I R L L Q P V T G T S R V P M N ZGCBP-1  
  
 864 G F A E L Y G S N G P Q S F T V E Q W G T P E K L P R A H T C F N R L D L P P Y P46934  
 912 G P A E L Y G S N G P Q L P T I E Q W G S P E K L P R A H T C F N R L D L P P Y ZGCBP-1  
  
 904 E S P E E L W D K L Q M A I E N T Q G F D G V - D P46934  
 952 E T F E D L R E K L L M A V E N A Q G F E G V D ZGCBP-1

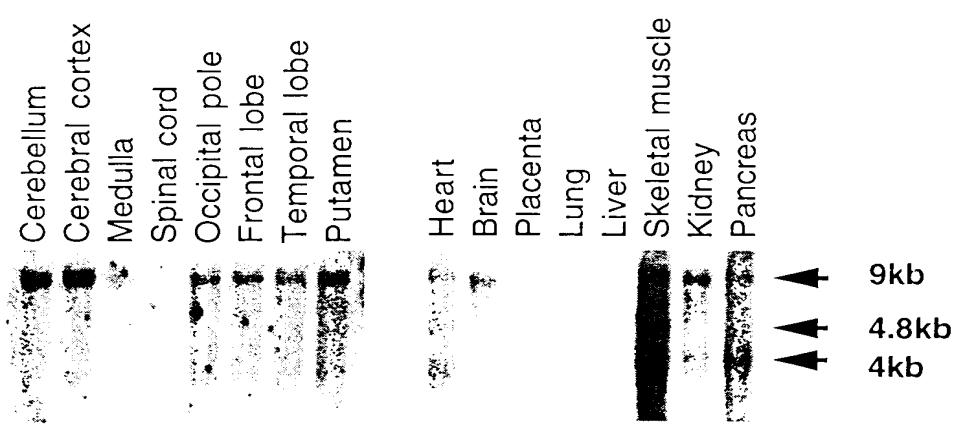
Figure 3

Figure 4a

1 - - - - - A C A A T G G G G C G T G G C - A G A G A A T G Mouse ZGGBP-1  
 1 C A G A G A A A G G T C T T G A C T A T G G G G T G G C C A G A G A A T G Human ZGGBP-1  
  
 25 G T T C T T C T T A C T G T C C A A A G A G A T G T T A A C C C C T A C T A T Mouse ZGGBP-1  
 41 G T T C T T C T T A C T G T C C A A A G A G A T G T T C A A C C C T A C T A C Human ZGGBP-1  
  
 65 G G C C T C T T C G A G T A C T C T G C C A C G G A C A A C T A C A C A C T T C Mouse ZGGBP-1  
 81 G G C C T C T T G A G T A C T C T G C C A C G G A C A A C T A C A C C C T T C Human ZGGBP-1  
  
 105 A G A T C A A T C C C A A C T C A G G C C T C T G T A A T G A A G A C C A T T T Mouse ZGGBP-1  
 121 A G A T C A A C C C T A A T T C A G G C C T C T G G A G G A T C A T T T Human ZGGBP-1  
  
 145 G T C C T A T T C A C C C T C A T T G G A A G G C C T C T G C T G G C C T A G C G Mouse ZGGBP-1  
 161 G T C C T A C T T C A C T T G G A A G G T T G G T G G T C T G G T C T G G C C Human ZGGBP-1  
  
 185 G T G T T C A T G G G A A A C T C T T A G A G G A T T C T T C A T T C G A C Mouse ZGGBP-1  
 201 G T A T T C A T G G G A A G G T T G G T G G T C T T C A T T C A T T C G A C Human ZGGBP-1  
  
 225 C A T T C T A C A A A G A T G A T G C T G G G A A G C A G A T A A C G C T G A A Mouse ZGGBP-1  
 241 C A T T T A C A A G A T G A T G T G G A A G G C A G A T A A C C C C T G A A Human ZGGBP-1  
  
 265 C G A C A T G G A G T C C G T G G A C A G C G A G T A C A A A C T C T C T G Mouse ZGGBP-1  
 281 T G A C A T G G A A T C T G T G G A A T G T G A A T T A C A A A C T C T T G Human ZGGBP-1  
  
 305 A A G T G G A T C T T A G A A A A C G A C C C A C G G A A C T T G A C C T C A Mouse ZGGBP-1  
 321 A A A T G G A T C C T G G A G A A T G A C C C T A C T G A G C T G G A C C T C A Human ZGGBP-1  
  
 345 T G T T C T G C A T A G A C C G A W G A A C T T T G G C A G A C A T A C C A Mouse ZGGBP-1  
 361 T G T T C T G C A T A G A C C G A A G A A A C T T T G G A C A T A T C A Human ZGGBP-1

Figure 4b

385 A G T G G A T C T G A A G C C C A A C G G G T C A G A A A T T A A T G G T A A C C Mouse ZGGBP-1  
 401 A G T G G A T T T G A A G C C C A A T G G G T C A G A A A T T A A T G G T C A C Human ZGGBP-1  
  
 425 A A T G G A A C A A A C C G A G A A T A C A T T G A C T T A G T C A T C C A G T Mouse ZGGBP-1  
 441 A A T G G A A C A A A A G G G A A T A T C G A C T T A G T C A T C C A G T Human ZGGBP-1  
  
 465 G G A G A T T T G T G A A C A G G G T C C A G A A G C C A A T T G A A T T G C C T T Mouse ZGGBP-1  
 481 G G A G A T T T G T G A A C A G G G T C C A G A A G C C C T T Human ZGGBP-1  
  
 505 C T T G G A G G G A T T T G A C T C C T C C A A T C G A C T T G A T T G A T T T Mouse ZGGBP-1  
 521 C T T G G A G G G A T T C A C A G A A C T A C T T C C T A T T G A T T G A T T T Human ZGGBP-1  
  
 545 A A A T T T T G A T G A A A A T G A G G C T G G A G T T G C T G A T T G T G C C Mouse ZGGBP-1  
 561 A A A T T T T G A T G A A A A T G A G G C T G G A G T T G C T G A T T G T G C C Human ZGGBP-1  
  
 585 G C C T T G G T G A T G T C G A C G T G A A C G A C T G G A G A C A G C A C T C Mouse ZGGBP-1  
 601 G C C T C G G T G A T G T G G A T T G T G A A T G A G G C A T T G A T T G T G C C Human ZGGBP-1  
  
 625 T A T T A C A A G A C C G G C T A C T T G C C C A A C C A C C C C G T C A T T C Mouse ZGGBP-1  
 641 T A T T A C A A G A C C G G C T A C T T G C C C A A A C C A C C C C G T C A T T C Human ZGGBP-1  
  
 665 C A G T G G T T C T G G A A G G C C G T G C T C C T G A T G G G A T G C T G A G Mouse ZGGBP-1  
 681 C A G T G G T T C T G G A A G G C T A C T T G C A G T T G C A C A G G G A C A T C G C C Human ZGGBP-1  
  
 705 A G C G C A T C C G G T T A C T A C A G T T G T C A C A G G C A C C T C C A G Mouse ZGGBP-1  
 721 A G C G T A T C C C T A T G G G T T A C T T G C A G T T G C A C A G G G A C A T C G C C Human ZGGBP-1  
  
 745 A G T A C C C A T G G A A T G G A T T G C C G A A C T C T A T G G T T C C A A T Mouse ZGGBP-1  
 761 A G T A C C C T A T G G A A T G G A T T G C C G A A C T T A T G G T T C C A A T Human ZGGBP-1  
  
 785 G G T C C T C A G G C T G G T T A C A A T A G A G C C A A T G G G G C A G T C C C - G Mouse ZGGBP-1  
 801 G G T C C T C A G G C T G G T T A C A A T A G A G C C A A T G G G G C A G T C C T G Human ZGGBP-1  
  
 824 A A A A A C T A C C - A G A G C T C - T A C A T G C T T - A A T C G G C Mouse ZGGBP-1  
 841 A G A A A A C T G C C C A G G C T C A C A C A T G C T T A T C G G C C T T G Human ZGGBP-1

Figure 5a

Figure 5b

Figure 5c

602	A A C T T C C T C C T C C T C T G C C T C C C G G G T G G G A A G A A A	Pub-3.seq
961	A A C T T C C T C C T C C T C T G C C T C C C G G T G G G A A G A A A	ZGGBP1.seq
642	A G T G G A C A A T T A G G C C G A A C T T A C T A T G T C A A C C A C A	Pub-3.seq
1001	A G T G G A C A A T T A G G C C G A A C T T A C T A T G T C A A C C A C A	ZGGBP1.seq
682	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	Pub-3.seq
1041	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	ZGGBP1.seq
722	T G T C C T C G G A G T C G G G A C A A T A A C A T C A G A C A G A T C A A C C A	Pub-3.seq
1081	T G T C C T C G G A G T C G G G A C A A T A A C A T C A G A C A G A T C A A C C A	ZGGBP1.seq
762	G G A G G C A G G C A C A C C G G G C T T C C G C T C C C G C A G G C A C A T C	Pub-3.seq
1121	G G A G G C A G G C A C A C C G G C T T C C G C T C C C G C A G G C A C A T C	ZGGBP1.seq
802	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G G C G G G A T T C	Pub-3.seq
1161	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G G C G G G A T T C	ZGGBP1.seq
842	T C C C G A G G C C T T G G A G A C C A T T C A G A G G A A G T G A A T A T	Pub-3.seq
1201	T C C C G A G G C C T T G G A G A C C A T T C A G A G G A A G T G A A T A T	ZGGBP1.seq
882	C G C T G G A G A C T C T C G G G T C T G G C T C T G C C C C A C C C A C C G	Pub-3.seq
1241	C G C T G G A G A C T C T C G G G T C T G G G T T T G C C C C A C C C A C C G	ZGGBP1.seq
922	G T C T C C C A G G A T C T C G G A C C A G C C C T C A G G A G G C T G T C A G	Pub-3.seq
1281	G C T C C C A G G A T C T C G G A C C A G C C C T C A G G A G G C T G T C A G	ZGGBP1.seq
962	A G G A A C T A A G G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A	Pub-3.seq
1321	A G G A A C T A A G G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A	ZGGBP1.seq
1002	T G G G G A A C A G T T C A G C T C T T G A T T C A A A G G A A C C C T C C	Pub-3.seq
1361	T G G G G A A C A G T T C A G C T C T T G A T T C A A A G G A A C C C T C C	ZGGBP1.seq
1042	T C A A G G T T G A G G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	Pub-3.seq
1401	T C A A G G T T G A G G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	ZGGBP1.seq
1082	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T T G T A C A	Pub-3.seq
1441	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T T G T A C A	ZGGBP1.seq

Figure 5d

1122 T	ACCACGGCTGGCTTCA	GAGCTGGGAAAGAAA	Pub-3.seq
1481 T	ACCAACGGCTTCA	GAGAAAGAAA	ZGBP1.seq
1162 G	ATGCTAACGGGCCA	TACTATGTCA	Pub-3.seq
1521 G	ATGCTAACGGGCCA	CATACATGTCA	ZGBP1.seq
1202 G	AACCAACACTTG	GAACCTCATGCAGCTTG	Pub-3.seq
1561 G	ACCAACACTTG	GAACCTCATGCAGCTTG	ZGBP1.seq
1242 A	GATGGTGGGTCGGG	ATCAGGCCAACAGTA	Pub-3.seq
1601 A	GATGGTGGGTCGGG	ACCTATCAGGCCAACAGTA	ZGBP1.seq
1282 C	TAATCGAGCCCTCAG	AGATCCGGCCCTCGT	Pub-3.seq
1641 C	TAATCGAGCCCTCAG	ATCCGGCCCTCGTAGCCT	ZGBP1.seq
1322 C	GCAACAGTAACTTATC	TGGCCGGCTGGAGGGT	Pub-3.seq
1681 C	GCAACAGTAACTTATY	TGGCCGGCTGGAGGGT	ZGBP1.seq
1362 G	GACTCACCCGTA	GGCTGGCTGTGAAAGAC	Pub-3.seq
1721 G	GACTCACCCGTA	GGCTGGCTGTGAAAGAC	ZGBP1.seq
1402 A	ACCCACAGTCCCCAAC	AGCCATCACCAACTT	Pub-3.seq
1761 A	ACCCACAGTCCCCAAC	ACCAACTTACAACCT	ZGBP1.seq
1442 A	ACCAACACAAAGTCA	CACACAGAGCTTCT	Pub-3.seq
1801 A	ACCAACACAAAGTCA	CACACAGAGCTTCT	ZGBP1.seq
1482 C	TGGAAATGAGGATA	GGCCAAACGGCC	Pub-3.seq
1841 C	TGGAAATGAGGATA	GGCCAAACGGCC	ZGBP1.seq
1522 A	TTGATCATAACAAAGAC	AAACACACCTGGGAAG	Pub-3.seq
1881 A	TTGATCATAACAAAGAC	ATCCACACAAAGAC	ZGBP1.seq

Figure 5e

1562	G T T G A A T T C C A G T A C A T A T G C G G T C C A A A G A C A T C T T	Pub-3.seq
1921	G T T T G A A T T C C A G T A C A T A T G C G G T C C A A A G A C A T C T T	ZGGBP1.seq
1602	A A A C C C C A A T G A C C T T G G C C C C C T T C C T C C T G G C T G G G A A	Pub-3.seq
1961	A A A C C C C A A T G A C C T T G G C C C C C T T C C T C C T G G C T G G G A A	ZGGBP1.seq
1642	G A A G A A T T C A C T T G G G A T G G C C G A A C G T T T A T T G A T C	Pub-3.seq
2001	G A A G A A T T C A C T T G G G A T G G C C G A A C G T T T A T T G A T C	ZGGBP1.seq
1682	A T A A T A G C C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	Pub-3.seq
2041	A T A A T A G C C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	ZGGBP1.seq
1722	G A A C C C A G C T A T T A C T G A C T A C T C A G G G C T G T C C C T T A C T C C A G A	Pub-3.seq
2081	G A A C C C A G C T A T T A C T G G T C C C G C T G T C C C T T A C T C C A G A	ZGGBP1.seq
1762	G A A T T A A G C A G A A A T A T G A C T A C T C A G G G A A G A A A A T T A A	Pub-3.seq
2121	G A A T T A A G C A G A A A T A T G A C T A C T C A G G G A A G A A A A T T A A	ZGGBP1.seq
1802	T G A A A C C T G G C T G A T A T C C C C A A T A G G T T T G A A A T T G A A A C T	Pub-3.seq
2161	A G A A A C C T G G C T G A T A T C C C C A A T A G G T T T G A A A T T G A A A C T	ZGGBP1.seq
1842	T C A C A G A A A T A A C A T A T T G A A G A G T C C T A T C G G A G A T T	Pub-3.seq
2201	T C A C A G A A A A T A A C A T A T T G A A G A G T C C T A T C G G A G A T T	ZGGBP1.seq
1882	A T G T C C C G T G A A A A G A C C C A G A T G T C C T A A A A G C T A G A C T G T	Pub-3.seq
2241	A T G T C C C G T G A A A A G A C C C A G A T G T C C T A A A A G C T A G A C T G T	ZGGBP1.seq
1922	G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	Pub-3.seq
2281	G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	ZGGBP1.seq
1962	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	Pub-3.seq
2321	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	ZGGBP1.seq
2002	T T C A A C C C C T A C T A C G G C C T C T T G A G T A C T C T G C C A C G G	Pub-3.seq
2361	T T C A A C C C C T A C T A C G G C C T C T T G A G T A C T C T G C C A C G G	ZGGBP1.seq
2042	A C A A C T A C A C C C C T C A G A T C A A C C C C T A A T T C A G G C C T C T G	Pub-3.seq
2401	A C A A C T A C A C C C C T C A G A T C A A C C C C T A A T T C A G G C C T C T G	ZGGBP1.seq

Figure 5f

2082	T A A T G A G G G A T C A T T G T C C T A C T T C A C T T T A T T G G A A G A	Pub-3.seq
2441	T A A T G A G G G A T C A T T G T C C T A C T T C A C T T T A T T G G A A G A	ZGGBP1.seq
2122	G T T G C T G G C T G G C C G T A T T C A T G G G A A G C T C T T A G A T G	Pub-3.seq
2481	G T T G C T G G C T G G C C G T A T T C A T G G G A A G C T C T T A G A T G	ZGGBP1.seq
2162	G T T C T T C A T T A G A C C A T T C A A G A T G A T G T G G A A G C T C T T A G A T G	Pub-3.seq
2521	G T T C T T C A T T A G A C C A T T C A A G A T G A T G T G G A A G C T C T T A G A T G	ZGGBP1.seq
2202	G C A G A T A A C C C T G A A T G A C A T G G A A T C T G T G G A A T A G T G A A A	Pub-3.seq
2561	G C A G A T A A C C C T G A A T G A C A T T C A A G A T G A T G T G G G A A A	ZGGBP1.seq
2242	T A T T A C A A C T C T T G A A A T G G A T C C C T G G A G A A T G G A C C C T A	Pub-3.seq
2601	T A T T A C A A C T C T T G A A A T G G A T C C C T G G A G A A T G G A C C C T A	ZGGBP1.seq
2282	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G G A A A A C T T	Pub-3.seq
2641	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G G A A A A C T T	ZGGBP1.seq
2322	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	Pub-3.seq
2681	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	ZGGBP1.seq
2362	G A A A T A A T G G G T C A C A A A T G A A A A C A A A A G G G A A T A T A T C G	Pub-3.seq
2721	G A A A T A A T G G G T C A C A A A T G A A A A C A A A A G G G A A T A T A T C G	ZGGBP1.seq
2402	A C T T A G T C A T C C A G T G G A G A T T T G T G A A C A G G G T C C A G A	Pub-3.seq
2761	A C T T A G T C A T C C A G T G G A G A T T T G T G A A C A G G G T C C A G A	ZGGBP1.seq
2442	G C A G A T G A A C G G C C T T C C T T G A G G G A T T C A C A G A A C T A C T T	Pub-3.seq
2801	G C A G A T G A A C G G C C T T C C T T G A G G G A T T C A C A G A A C T A C T T	ZGGBP1.seq
2482	C C T A T T G A T T G A T T A A A T T T G A T G A A A A T G A G C T G G	Pub-3.seq
2841	C C T A T T G A T T G A T T A A A T T T G A T G A A A A T G A G C T G G	ZGGBP1.seq

Figure 5g

2522 A G T T G C T C A T G T G C G G C C T C G G T G A T G T G A A T G A	Pub-3.seq
2881 A G T T G C T C A T G T G C G G C C T C G G T G A T G T G A A T G A	ZGGBP1.seq
2562 C T G G A G A C A G C A T T C T A T T A C A A G A A C C G G C T A C T G C C A	Pub-3.seq
2921 C T G G A G A C A G C A T T C T A T T A C A A G A A C C G G C T A C T G C C A	ZGGBP1.seq
2602 A A C C A C C C C G T C A T T C A G T G G T T C T G G A A G G C T G C T A C	Pub-3.seq
2961 A A C C A C C C C G T C A T T C A G T G G T T C T G G A A G G C T A C T G C C A	ZGGBP1.seq
2642 T C A T G G A C G G C G A A A A A G C G G T A T C C C G G T T A C T G C A G T T T G T	Pub-3.seq
3001 T C A T G G A C G G C G A A A A A G C G G T A T C C C G G T T A C T G C A G T T T G T	ZGGBP1.seq
2682 C A C A G G A C A T C G C G A G T A C C T A T G A A T G G A T T G C C G G A	Pub-3.seq
3041 C A C A G G A C A T C G C G A G T A C C T A T G A A T G G A T T G C C G G A	ZGGBP1.seq
2722 C T T T A T G G T T C C A A T G G T C C C T C A G G C T G T T A C A A T A G A G C	Pub-3.seq
3081 C T T T A T G G T T C C A A T G G T C C C T C A G G C T G T T A C A A T A G A G C	ZGGBP1.seq
2762 A A T G G G G C A G T C C T G A G A A A C T C C C A G A G C T C A C A C A T G	Pub-3.seq
3121 A A T G G G G C A G T C C T G A G A A A C T G C C C A G A G C T C A C A C A T G	ZGGBP1.seq
2802 C T T T A A T C G C C T T G A C T T A C C T C C A T A T G A A A C C T T T G A A	Pub-3.seq
3161 C T T T A A T C G C C T T G A C T T A C C T C C A T A T G A A A C C T T T G A A	ZGGBP1.seq
2842 G A T T T A C G A G A G A A C T T C T C A T G G C C G T G G G A A A A T G C T C	Pub-3.seq
3201 G A T T T A C G A G A A A C T T C T C A T G G C C G T G G G A A A A T G C T C	ZGGBP1.seq
2882 A G G A T T T G A A A G G G T G G A T T A A G C A C C C T G T G C C C T C G G G	Pub-3.seq
3241 A G G A T T T G A A A G G G T G G A T T A A G C A C C C T G T G C C C T C G G G	ZGGBP1.seq
2922 G G T G G T T G T T C A A G C A A G T T C T G C A C T T T T G C A	Pub-3.seq
3281 G G T G G T T G T T C A A G C A A G T T C T G C A C T T T T G C A	ZGGBP1.seq
2962 T T G C C T A A C A G A C T T T G C A G A G G C G A T G G C A G A G A G C A	Pub-3.seq
3321 T T G C C T A A C A G A C T T T G C A G A G G C G A T G G C A G A G A G C A	ZGGBP1.seq
3002 G C T G C A G G C A T G G T C C C T G A G G C C G A G C C T T C A C C A C G C A	Pub-3.seq
3361 G C T G C A G G C A T G G T C C C T G A G G C C G A G C C T T C A C C A C G C A	ZGGBP1.seq

Figure 5h

Figure 5i

3214 - - - - -  
 4360 T A T C A T G A A C A T T A A A T G T G A T G A T T C T T T C C C T G Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4400 C A C A C A T C T T T C C G G T G C A A T A T C T A A T T G T G A A T C T Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4440 G G C T G C T G G G T G T A T A A A A C C T G G A T G T A A A G C T G A G C C T Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4480 A C A G A C C T G T C C T C A C C A A C T G T T T G A T T C T A C T C A Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4520 A C T A C A A A G A T T A T T A T G T A T C T C T A A T C T A A C T G A G Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4560 T T T G T T A C C A A T G A C C T G C T T G C A T G C T T C A A T A C C G T G T Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4600 A C T G C C T G A G T T G A C T T G A C T C T G A G C C T C A A G C T A T G Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4640 A G A C A G A G A C T T G A C T T G A C T C T G A G C C T C A A G C T A T T Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4680 G A G C T G G T A G T G G C A G A G G A C T G A G G G T A C C T G C A C A G T T Pub-3.seq  
 ZGGBP1.seq

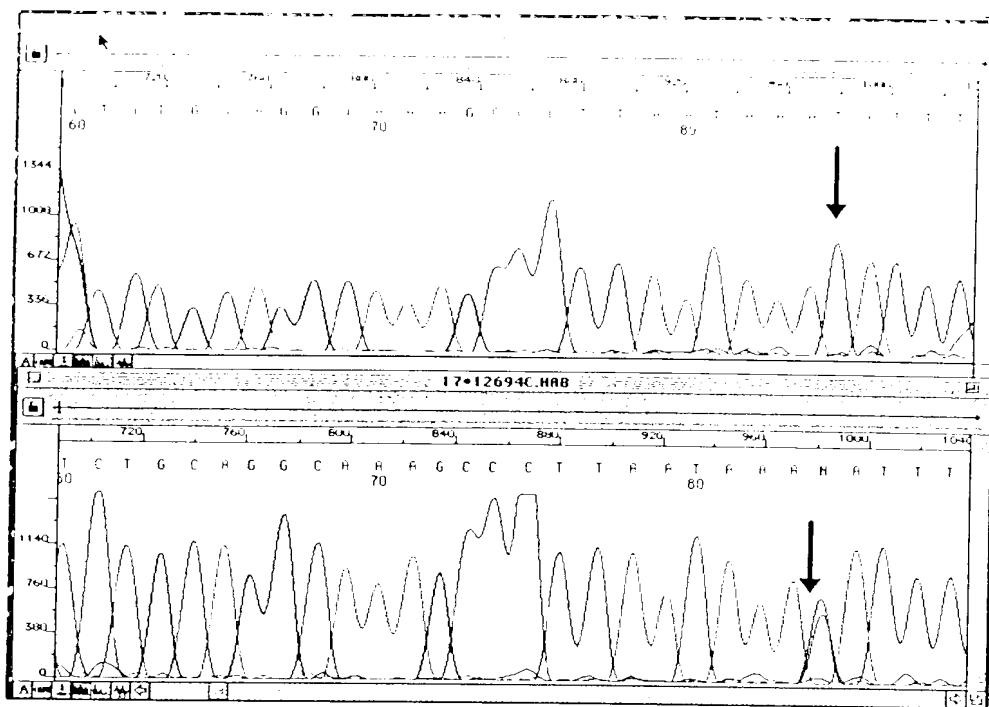
3214 - - - - -  
 4720 T G A T T C T T T C C C A C G T T G T A A G T C T C C A T T G C A G A A T T G Pub-3.seq  
 ZGGBP1.seq

3214 - - - - -  
 4760 T C G T G C G T T G A G A A A A C A C C T G A G G C A G T G T G G G A G T T G Pub-3.seq  
 ZGGBP1.seq

Figure 5j

3214 - - - - -  
 4800 A A C G A C C C T G C T G T C C T T A A C C T G T G T T G T C C T A G A C - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3214 - - - - -  
 4840 C T G T C G G G G C A G T C A G G G G A C A C T A G A G A T T G A T C T C A T - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3214 - - - - -  
 4880 G C G A G T C A T C A A T A G G A C A A A A A A G T T G G G T T G G G G - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3220 - - - - -  
 4920 G T C T G T T G T T A C A T A A A A G G A C C T T T C G G T G T A A G A A A - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3220 - - - - -  
 4960 T T G C C G T T T A C C C T G C C T G G C T G G C A T G T G A G A A G C C - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3220 - - - - -  
 5000 A T G G A A G G G T T G G T T G T A A A T G A G T T G T C T A A A G G G G T G - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3220 - - - - -  
 5040 C A G A G G C C T G A G G T T T C T A A A A G G A A G G T A G A T T C T A C A G - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3226 - - - - -  
 5080 A G C T G A U T G T T G G T T C C T T C T T A T T G G T T G A A A A T T A - - - - -  
 Pub-3.seq  
 ZGGBP1.seq  
 3226 - - - - -  
 5120 C C T G G T A G T C A G A A A C T A G A T G C T A T G T A A C T C - - - - -  
 Pub-3.seq  
 ZGGBP1.seq

Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Figure 6

**Wild Type (human foetal brain)**

**T/T**

**Variant Type (human adult brain)**

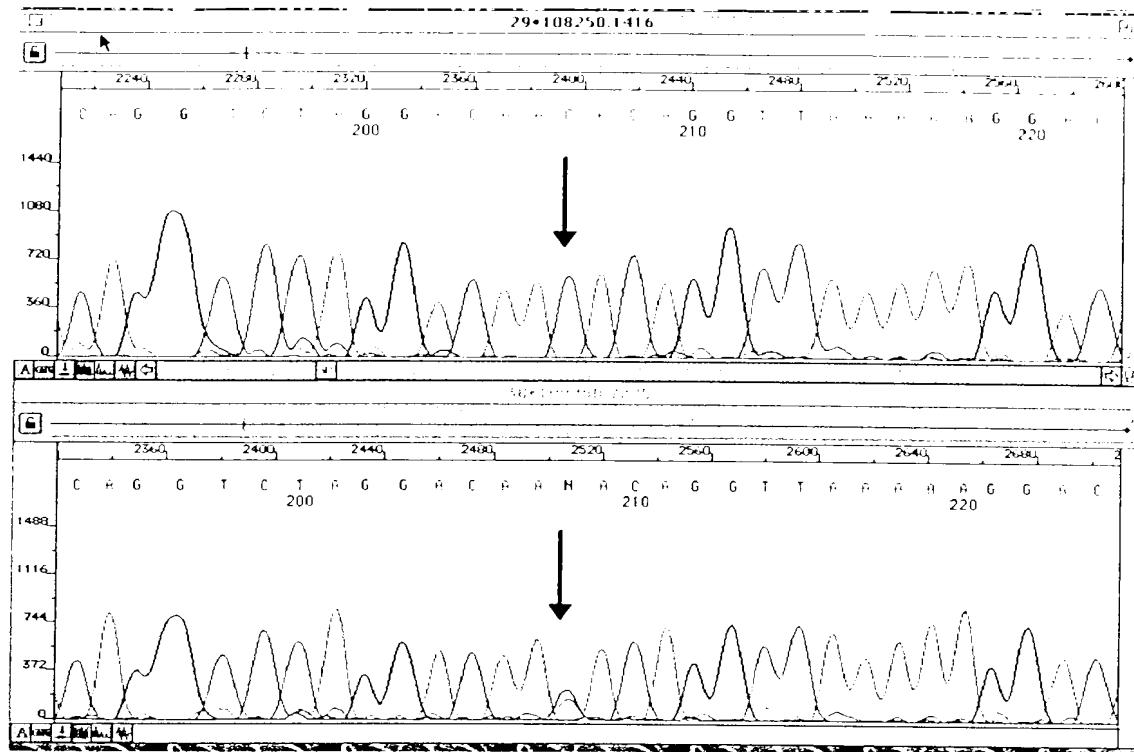
**T/C**

**Polymorphism Position**

**3554**

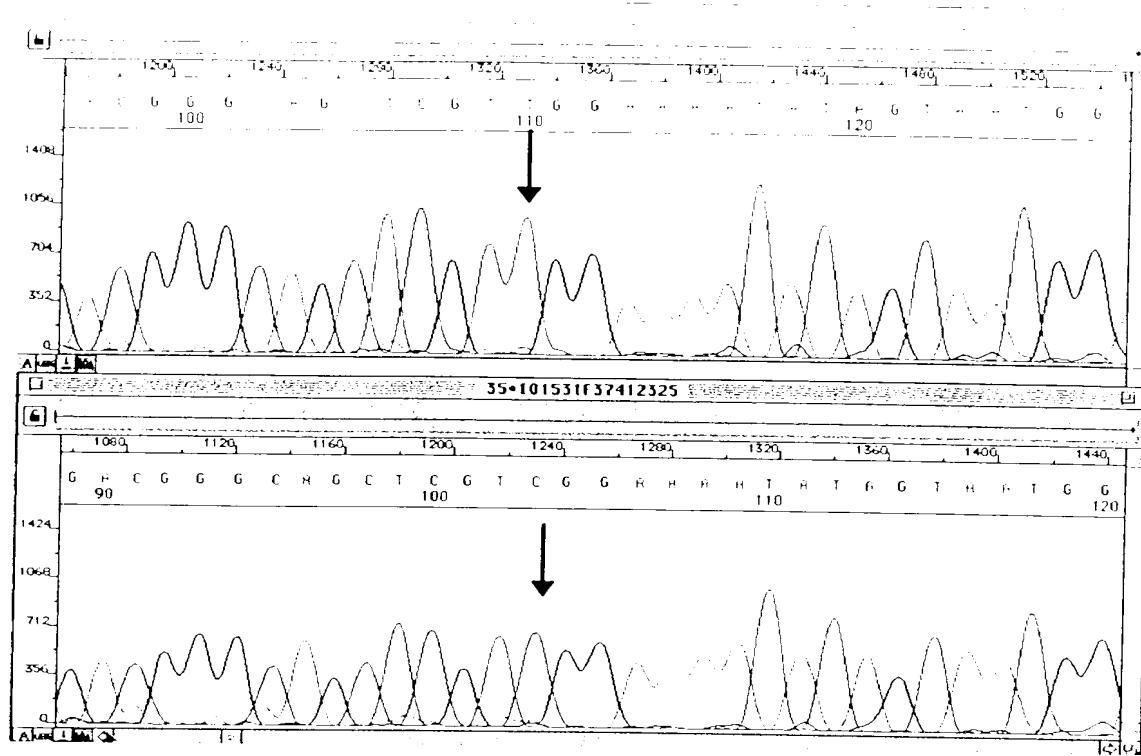
**RFLP**

**-**

Figure 7

Wild Type (GM1416)                    C/C  
Variant (7225)                        C/G  
Position                                4828

Figure 8



Primer sequences derived from BAC and used on lymphoblastoid cell lines from BPAD Patients.

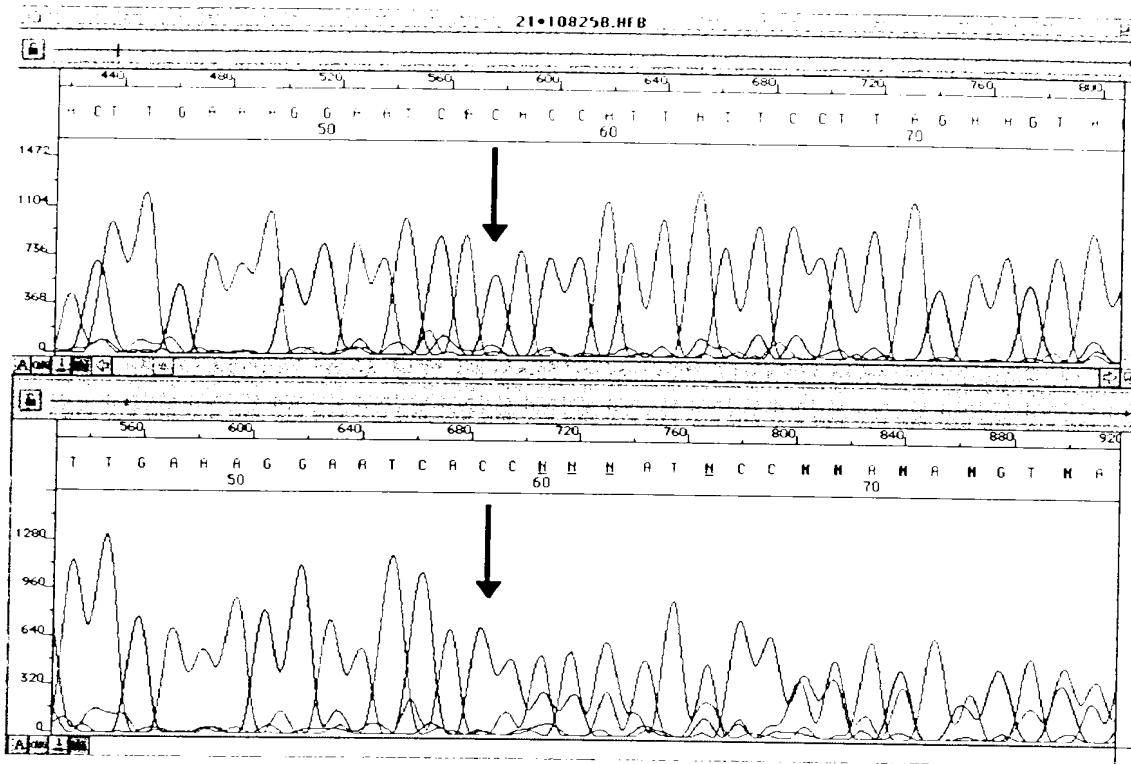
Homozygous wild type (KK169) - T/T

Homozygous variant (KK232) - C/C

Figure 9

TGCTGCAAGTGACAGGTTCCAAGAAGGCCGAGGGCTCAGAGCTGAATGATGAAGCGC  
AGTCCCCAAAGTGCTGGCCACCCCTCCCTGGATCACTGCTGCCTGGGCTTGA  
TTGATTGATTGATTGATTGATTGATTGATTTTGAGAGAGATTCTCACTGTCACCAG  
GCTGGAGTACAGTGGTGCGATCTCGGCTCACTGCAGCCTCTGCCTCCCGGTTCAAG  
CAATTCTCCTGCCTCAGCCTCCAAAGTAGCTGGGACTACAGGCACGCGCACCACAC  
CCAGCTAATTTTGTATTTAGTAAAAGACGGGGTTTCACCATGTTGGGCCAGGATG  
GTCTTGATCTCCTGACCTCATGATCCACCCGCCGGCTTCAAAGTGCTGGATAC  
AGGCATGAACCGACGGGCCAGCATGGACATTTTTAATCCCCTGCCCTTT  
TTGNGGCATAATTCATTGCAGGTCTCTTATACAGATCATGGAAAACACATTTTCT  
TAACTGAGTTNTTATTATTTTACCCAGNCACCTCATGACANNTTACCCGTTTACA  
NACAAAATGGGCACCTGCCAAAANCAACTTNATATAAGGATGCTCCAGGCCT

Tetranucleotide repeat underlined

Figure 10

Top electropherogram (human foetal brain) - wild type

Lower electropherogram (7225)

- heterozygous variant

Arrow indicates the position of the C+C insertion - position 4032